

WHAT IS CLAIMED IS:

1. A magnetic lock mountable on an electronic device capable of opening or closing, the magnetic lock comprising:

an elongate, rectangular upper magnetic plate comprising a plurality of  
5 alternate magnetic members of positive polarity and magnetic members of negative polarity disposed from one end to the other end; and

an elongate, rectangular lower magnetic plate comprising a plurality of alternate magnetic members of positive polarity and magnetic members of negative polarity disposed from one end to the other end, and

10 wherein the upper magnetic plate is formed on an upper housing of the electronic device and the lower magnetic plate is formed on a lower housing of the electronic device so that covering the upper housing on the lower housing will attract the magnetic members of the upper magnetic plate and the magnetic members of the lower magnetic plate having a polarity different from that of the  
15 magnetic members of the upper magnetic plate together due to magnetism, thereby fastening the upper and the lower housings together for locking the electronic device; or moving laterally the upper magnetic plate a predetermined distance will move the magnetic members of the upper magnetic plate about the magnetic members of the lower magnetic plate the predetermined distance to  
20 repel the magnetic members of the upper magnetic plate from the magnetic members of the lower magnetic plate having the same polarity as that of the magnetic members of the upper magnetic plate due to magnetism, thereby forming a gap between the upper and the lower housings prior to unlocking the electronic device.

25 2. The magnetic lock of claim 1, wherein the electronic device is a notebook computer, the upper housing is a display, and the lower housing is a computer case, and further comprising a slide lock on one side of the display

corresponding to the computer case, the slide lock being adjacent the upper magnetic plate, and an elastic element having one end coupled to the other end of the upper magnetic plate and the other end anchored at an interior wall of the display so that pushing the slide lock toward the elastic element for compression, 5 the upper magnetic plate will move laterally a predetermined distance and the magnetic members of the upper magnetic plate will move about the magnetic members of the lower magnetic plate the predetermined distance to repel the magnetic members of the upper magnetic plate from the magnetic members of the lower magnetic plate having the same polarity as that of the magnetic 10 members of the upper magnetic plate due to magnetism, thereby forming a gap between the display and the computer case prior to unlocking the.

3. The magnetic lock of claim 1, wherein each of the magnetic members is formed of a magnetic pad.

4. A magnetic lock mountable on an electronic device capable of opening or 15 closing, the magnetic lock comprising:

a disc shaped, rotatable upper magnetic plate comprising a magnetic member of positive polarity at one half and a magnetic member of negative polarity at the other half; and

a circular lower magnetic plate comprising a magnetic member of positive 20 polarity at one half and a magnetic member of negative polarity at the other half, and

wherein the upper magnetic plate is formed on an upper housing of the electronic device and the lower magnetic plate is formed on a lower housing of the electronic device so that covering the upper housing on the lower housing 25 will attract the magnetic members of the upper magnetic plate and the magnetic members of the lower magnetic plate having a polarity different from that of the magnetic members of the upper magnetic plate together due to magnetism,

thereby fastening the upper and the lower housings together for locking the electronic device; or rotating the upper magnetic plate about 180 degrees will move the magnetic members of the upper magnetic plate with respect to the magnetic members of the lower magnetic plate about 180 degrees to repel the magnetic members of the upper magnetic plate from the magnetic members of the lower magnetic plate having the same polarity as that of the magnetic members of the upper magnetic plate due to magnetism, thereby forming a gap between the upper and the lower housings prior to unlocking the electronic device.

5     5. The magnetic lock of claim 4, wherein the upper magnetic plate further comprises a tab extended downward from its bottom and the lower magnetic plate further comprises a hole through its center, the hole being conformed to fitly receive the tab so that insertion of the tab into the hole will attract the magnetic members of the upper magnetic plate and the magnetic members of the lower magnetic plate having a polarity different from that of the magnetic members of the upper magnetic plate together due to magnetism, thereby fastening the upper and the lower housings together for locking the electronic device.

10     6. The magnetic lock of claim 5, wherein rotating the upper magnetic plate with respect to the lower magnetic plate about 180 degrees with the tab fastened in the hole will move the magnetic members of the upper magnetic plate with respect to the magnetic members of the lower magnetic plate about 180 degrees to repel the magnetic members of the upper magnetic plate from the magnetic members of the lower magnetic plate having the same polarity as that of the magnetic members of the upper magnetic plate due to magnetism, thereby forming a gap between the upper and the lower housings prior to unlocking the electronic device.

7. The magnetic lock of claim 4, wherein each of the magnetic members is formed of a magnetic pad.